

WEST Search History

DATE: Wednesday, June 21, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L10	L9 and (((iron or ferrous or "Fe" or ferromagnetic\$4 or ferro-magnetic\$4 or ferritic\$4) with (ring or loop\$3 or anulus or anular\$2 or annular\$2)) with (main or "bo" or "B0" or "ho" or "H0" or static or homogeneous or homogeneity or uniform\$4) with (shield\$4 or buck\$3 or block\$3) with (coil or probe or antenna or winding))	2
<input type="checkbox"/>	L9	L8 and ((iron or ferrous or "Fe" or ferromagnetic\$4 or ferro-magnetic\$4 or ferritic\$4) with (ring or loop\$3 or anulus or anular\$2 or annular\$2))	69
<input type="checkbox"/>	L8	L7 and (stack\$4 or ((concentric\$4 or axial\$2) with (position\$4 or locat\$4 or orient\$4 or orientation)))	388
<input type="checkbox"/>	L7	L6 and (main or "bo" or "B0" or "ho" or "H0" or static or homogeneous or homogeneity or uniform\$4)	1007
<input type="checkbox"/>	L6	L5 and (iron or ferrous or "Fe" or ferromagnetic\$4 or ferro-magnetic\$4 or ferritic\$4)	1099
<input type="checkbox"/>	L5	L4 and (ring or loop\$3 or anulus or anular\$2 or annular\$2)	3306
<input type="checkbox"/>	L4	L3 and ((shield\$4 or buck\$3 or block\$3) with (coil or probe or antenna or winding))	5734
<input type="checkbox"/>	L3	L2 and (coil or probe or antenna or winding)	37483
<input type="checkbox"/>	L2	L1 and (shield\$4 or buck\$3 or block\$3)	93279
<input type="checkbox"/>	L1	((magnetic adj resonance) or MRI or NMR)	228649

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 5001447 A

L10: Entry 1 of 2

File: USPT

Mar 19, 1991

US-PAT-NO: 5001447

DOCUMENT-IDENTIFIER: US 5001447 A

** See image for Certificate of Correction **TITLE: Ferromagnetic compensation rings for high field strength magnets

DATE-ISSUED: March 19, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jayakumar; Raghavan	Florence	SC		

US-CL-CURRENT: 335/299; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 2. Document ID: EP 414528 A, DE 69030968 E, US 5001447 A, CA 2013936 A, JP 03138912 A, IL 95295 A, EP 414528 B1

L10: Entry 2 of 2

File: DWPI

Feb 27, 1991

DERWENT-ACC-NO: 1991-059717

DERWENT-WEEK: 199736

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TITLE: High field DC magnet assembly for magnetic resonance equipment - has ferromagnetic compensation ring pairs coaxially positioned around bore axis and symmetrically around bore axis centre point

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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Term	Documents
IRON	897510
IRONS	42962

FERROUS	123279
FERROU	626
FE	490775
FES	10119
RING	2425233
RINGS	680051
ANULUS	361
ANULU	3
(L9 AND (((IRON OR FERROUS OR "FE" OR FERROMAGNETIC\$4 OR FERRO-MAGNETIC\$4 OR FERRITIC\$4) WITH (RING OR LOOP\$3 OR ANULUS OR ANULAR\$2 OR ANNULAR\$2)) WITH (MAIN OR "BO" OR "B0" OR "HO" OR "H0" OR STATIC OR HOMOGENEOUS OR HOMOGENEITY OR UNIFORM\$4) WITH (SHIELD\$4 OR BUCK\$3 OR BLOCK\$3) WITH (COIL OR PROBE OR ANTENNA OR WINDING))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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WEST Search History

DATE: Friday, June 02, 2006

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L82	6842002 B2	2
<input type="checkbox"/>	L81	20030001575	2
<input type="checkbox"/>	L80	L79 and ((control\$4 or shap\$3 or adjust\$4 or maintain\$3 or alter\$3 or compensat\$3) with (homogeniz\$4 or homogenization or uniform\$4 or homogeneous or homogeneity) with (coil or winding) with (magnetic or field))	17
<input type="checkbox"/>	L79	11 and ((control\$4 or shap\$3 or adjust\$4 or homogeniz\$4 or homogenization or uniform\$4 or homogeneous or homogeneity or maintain\$3 or alter\$3 or compensat\$3) with (coil or winding or magnetic or field))	241
<input type="checkbox"/>	L78	L77 and (gusset)	1
<input type="checkbox"/>	L77	L76 and ((outer or innner or inside or outside or internal\$2 or external\$2 or interior or interier or exterior or exterier) with (surface or wall or face or shell))	70
<input type="checkbox"/>	L76	L75 and (surface or wall or face or shell)	107
<input type="checkbox"/>	L75	L74 and (outer or innner or inside or outside or internal\$2 or external\$2 or interior or interier or exterior or exterier)	116
<input type="checkbox"/>	L74	L73 and ((single or "one" or unit or unitary) with (support or structure or post or yoke or return))	121
<input type="checkbox"/>	L73	L72 and (radii or radius or radial\$2 or "center out" or "center outward\$2" or center-outward\$2 or center-out)	214
<input type="checkbox"/>	L72	L71 and (((imaging or examination or interest or investigation) with (zone or area or region or volume)) or "ROI" or "VOI")	460
<input type="checkbox"/>	L71	L70 and ((control\$4 or shap\$3 or adjust\$4 or maintain\$3 or alter\$3 or compensat\$3) with (homogeniz\$4 or homogenization or uniform\$4 or homogeneous or homogeneity) with (coil or winding) with (magnetic or field))	737
<input type="checkbox"/>	L70	L69 and ((control\$4 or shap\$3 or adjust\$4 or homogeniz\$4 or homogenization or uniform\$4 or homogeneous or homogeneity or maintain\$3 or alter\$3 or compensat\$3) with (coil or winding or magnetic or field))	5446
<input type="checkbox"/>	L69	L68 and (control\$4 or shap\$3 or adjust\$4 or homogeniz\$4 or homogenization or uniform\$4 or homogeneous or homogeneity or maintain\$3 or alter\$3 or compensat\$3)	5627
<input type="checkbox"/>	L68	L67 and (inside or "within" or above or below or upper or lower or behind or beyond or "in back of")	5830
<input type="checkbox"/>	L67	L66 and ((shim\$4 or shap\$4 or shield\$4 or auxiliary or buck\$3) with (coil or winding))	6978
<input type="checkbox"/>	L66	((magnetic adj resonan\$2) or MRI or NMR)	227604
<input type="checkbox"/>	L65	L64 and (((ferromagnetic\$5 or ferrus or ferro-magnetic\$5 or ferrite ot iron) with (ring or loop or annular\$2 or anulus or annulus))	2

<input type="checkbox"/>	L64	L63 and ((polar\$5) with (main or shap\$4 or buck\$4) with coil)	12
<input type="checkbox"/>	L63	L62 and (polar\$5)	13
<input type="checkbox"/>	L62	L61 and ((opposite or different or first or second or alternat\$3 or revers\$3 or clock-wise or clockwise or "clock wise" or "cw" or "ccw" or counter) with (current or direction))	13
<input type="checkbox"/>	L61	L60 and (buck\$5 with coil)	13
<input type="checkbox"/>	L60	L59 and ((buck\$5 or compensat\$4 or correct\$3 or shim\$4 or auxiliary or auxiliary) with coil)	13
<input type="checkbox"/>	L59	L58 and (ferromagnetic\$5 or ferrus or ferro-magnetic\$5 or ferrite ot iron or ring or loop or annular\$2 or anulus or annulus)	13
<input type="checkbox"/>	L58	L57 and (stainless or stain-less or steel or aluminum or fiber or reinforced or composite)	13
<input type="checkbox"/>	L57	L56 and (shell or housing or enclosure or cylinder or cylindrical\$2 or casing)	13
<input type="checkbox"/>	L56	L55 and ((single or one or solitary) with (support or pillar or pilar or column or yoke or post or pole))	13
<input type="checkbox"/>	L55	L54 and (hub or radi\$4 or center\$4 or central\$3)	13
<input type="checkbox"/>	L54	L53 and (gussets or gusset)	13
<input type="checkbox"/>	L53	L52 and (shap\$3 with coil)	265
<input type="checkbox"/>	L52	L51 and (support or pillar or pilar or column or yoke or post or pole)	335
<input type="checkbox"/>	L51	L50 and (single or one or solitary)	420
<input type="checkbox"/>	L50	L49 and (shap\$3 with magnet\$6)	432
<input type="checkbox"/>	L49	L48 and (open)	673
<input type="checkbox"/>	L48	L47 and (shap\$3 with (coil or field or flux))	1500
<input type="checkbox"/>	L47	L7 and ((main or primary) with coil)	3766
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L46	L45 and (gusset)	45
<input type="checkbox"/>	L45	L8 and (shap\$4)	53908
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L44	L43 and (laminat\$7)	16
<input type="checkbox"/>	L43	fetzner	276
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L42	L41 and (yoke or yok\$4)	0
<input type="checkbox"/>	L41	L40 not L26	14
<input type="checkbox"/>	L40	L39 and (post or support or frame or column or pillar or pole or plate or piece or fac\$4)	22
<input type="checkbox"/>	L39	L38 and (neodymium or "NdFeB")	22
<input type="checkbox"/>	L38	L37 and (steel)	364
<input type="checkbox"/>	L37	L36 and (laminat\$6)	787
<input type="checkbox"/>	L36	L35 and (wedge or wedged or pie or triang\$7)	5706
<input type="checkbox"/>	L35	L34 and (epoxy or glue or glued or adhesive or insulat\$6 or resin or attatch\$4)	37550

	or atatch\$4 or fix\$4)	
<input type="checkbox"/>	L34 L8 and (bevel\$4 or taper\$4 or diagonal\$4 or oblique or slant\$4 or tilt\$4 or trapezoid\$4 or slop\$4 or inward\$3 or outward\$3 or downward\$3 or upward\$3 or rotat\$4)	54862
<input type="checkbox"/>	L33 (5315276 5345208 5347252 5378988)! [pn] <i>DB=USPT; PLUR=YES; OP=ADJ</i>	8
<input type="checkbox"/>	L32 5378988.pn.	1
<input type="checkbox"/>	L31 5347252.pn.	1
<input type="checkbox"/>	L30 5345208.pn.	1
<input type="checkbox"/>	L29 5315276.pn. <i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	1
<input type="checkbox"/>	L28 L27 and (wedge or wedged)	0
<input type="checkbox"/>	L27 L26 not L22	13
<input type="checkbox"/>	L26 L25 and (steel)	16
<input type="checkbox"/>	L25 L24 and (neodymium or "NdFeB")	28
<input type="checkbox"/>	L24 L23 and (laminat\$6)	148
<input type="checkbox"/>	L23 L9 and (bevel\$4 or taper\$4 or diagonal\$4 or oblique or slant\$4 or tilt\$4 or trapezoid\$4 or slop\$4 or inward\$3 or outward\$3 or downward\$3 or upward\$3 or rotat\$4)	1233
<input type="checkbox"/>	L22 L17 and (wedge or wedged)	3
<input type="checkbox"/>	L21 L20 not L19	3
<input type="checkbox"/>	L20 L17 and (laminat\$6)	16
<input type="checkbox"/>	L19 L18 and (laminat\$6)	13
<input type="checkbox"/>	L18 L17 and (epoxy or glue or glued or adhesive or insulat\$6 or resin or attatch\$4 or atatch\$4 or fix\$4)	33
<input type="checkbox"/>	L17 L16 and (neodymium or "NdFeB")	37
<input type="checkbox"/>	L16 L15 and (steel)	395
<input type="checkbox"/>	L15 L11 and (post or support or frame or column or pillar)	1037
<input type="checkbox"/>	L14 L13 and (neodymium or "NdFeB")	37
<input type="checkbox"/>	L13 L12 and (steel)	392
<input type="checkbox"/>	L12 L11 and (post or support or frame or column)	1034
<input type="checkbox"/>	L11 L10 and (pole or plate or piece or fac\$4)	1170
<input type="checkbox"/>	L10 L9 and (bevel\$4 or taper\$4 or diagonal\$4 or oblique or slant\$4 or tilt\$4 or trapezoid\$4 or slop\$4 or inward\$3 or outward\$3 or downward\$3 or upword\$3 or rotat\$4)	1216
<input type="checkbox"/>	L9 L8 and (yoke or yok\$4)	2548
<input type="checkbox"/>	L8 L7 and (open or "c")	195453
<input type="checkbox"/>	L7 ((magnetic adj resonance) or MRI or NMR) <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	220115
<input type="checkbox"/>	L6 L5 and (gusset)	13

<input type="checkbox"/>	L5	L4 and ((magnetic adj resonance) or MRI or NMR)	78
<input type="checkbox"/>	L4	L3 and (shap\$4 with coil)	1104
<input type="checkbox"/>	L3	(buck\$4 with coil)	4983
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L2	L1	276
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L1	fetzner	294

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☐ 1. Document ID: US 20050253585 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 1

File: PGPB

Nov 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050253585

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050253585 A1

TITLE: Permanent magnet for magnet resonance

PUBLICATION-DATE: November 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Xiao, Shengqian	Shen Yang		CN
Zhao, Shijie	Shen Yang		CN
Chen, Guangran	Shen Yang		CN

US-CL-CURRENT: 324/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw D
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Term	Documents
TWICE	630644
TWICES	15
ANNEAL\$4	0
ANNEAL	72440
ANNEALA	2
ANNEALABIE	1
ANNEALABLE	183
ANNEALAD	1
ANNEALAGE	1
ANNEALAING	2

ANNEALAL	1
(L5 AND (TWICE WITH ANNEAL\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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☒ 1. Document ID: US 20040100261 A1

Using default format because multiple data bases are involved.

L78: Entry 1 of 1

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040100261

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040100261 A1

TITLE: Cold mass support structure and helium vessel of actively shielded high field open MRI magnets

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Laskaris, Evangelos	Schenectady	NY	US
Huang, Xianrui	Clifton Park	NY	US
Ogle, Michele Dollar	Burnt Hills	NY	US
Palmo, Michael A.	Ballston Spa	NY	US
Thompson, Paul S.	Stephentown	NY	US

US-CL-CURRENT: [324/318](#); [324/319](#), [335/216](#), [335/299](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMC	Drawings
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Term	Documents
GUSSET	26938
GUSSETS	18138
(77 AND GUSSET) .PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1
(L77 AND (GUSSET)) .PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1

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